

## EFFICACY REVIEW

### Amvac Naled Products (EPA Reg. No. 5481-479, 5481-480, 5481-481, 5481-482)

Date: June 27, 2006

EPA Reg. No.: Fly Killer D (EPA Reg. No. 5481-482)  
Trumpet EC (EPA Reg. No. 5481-481)  
Dibrom 8 Emulsive (EPA Reg. No. 5481-479)  
Dibrom Concentrate (EPA Reg. No. 5481-480)

Chemical Number: 034401

DP Barcode: D322736

Pest: Public Health Pests Listed on AMVAC's Labels

Chemical: Naled (1,2-dibromo-2,2-dichloroethyl dimethyl phosphate)

Formulation Type: Fly Killer D (EPA Reg. No. 5481-482); 26% liquid  
Trumpet EC (EPA Reg. No. 5481-481); 78% liquid  
Dibrom 8 Emulsive (EPA Reg. No. 5481-479); 62% liquid  
Dibrom Concentrate (EPA Reg. No. 5481-480); 87.4% Liquid

Purpose: Reregistration Action; submit additional efficacy data for labeled public health pests.

MRID: 46111014. Wood, J.C. 2003. Mosquito, Black Fly, and Biting Midges: Naled Product Performance. Sponsor: AMVAC Chemical Corporation, Newport Beach, CA.; Performing Lab: Not Applicable; Report ID: 200-EFF-024.

46668201. Wood, J.C. 2005. Flies, Cattle Grubs and Lice, Cockroaches and Gnats; NALED Product Performance. Sponsor: AMVAC Chemical Corporation, Newport Beach, CA.; Performing Lab: Not Applicable; Report ID: 200-EFF-025.

Good Laboratory Practices: No

Branch

Supervisor: Meredith Laws, Branch Chief

Team Reviewer: Rita Kumar

SRRD Reviewer: Karen Jones

Efficacy  
Reviewer: Joanne S. Edwards, Entomologist, M.S.

Secondary  
Reviewer: Kable Davis, Entomologist, M.S.

### **BACKGROUND:**

The request is to review additional data to support efficacy data requirements for public health pests imposed in the Naled IRED. See previous review dated February 24, 2005 under D296172. In that review, the following deficiencies were noted:

- No data were submitted or referenced to support the label claim for control of horn flies.
- No data were submitted or referenced to support label claims for houseflies (resistant or non-resistant) or lesser house flies.
- No data were submitted or referenced to support label claims for control of black flies.
- No data were submitted or referenced to support directions for use for space-spraying.
- No data were referenced to support the various application rates for control of gnats, stable flies and house flies in the WEST and EAST (and also what the geographical definition is).
- Insufficient data were referenced to support the suppression control claims for deerflies.
- Insufficient data were referenced to support control claims for stable flies in agricultural areas or woodlands.
- Insufficient data were referenced to support the reduction of livestock pests in corrals, holding pens, feedlots, and rangelands containing dairy and beef cattle,

hogs, sheep, horses by ground or air.

## REVIEW OF DATA:

**46668201. Wood, J.C. 2005. Flies, Cattle Grubs and Lice, Cockroaches and Gnats; NALED Product Performance. Sponsor: AMVAC Chemical Corporation, Newport Beach, CA.; Performing Lab: Not Applicable; Report ID: 200-EFF-025.**

The information contained in this MRID consists of seventy-three published articles dealing with the efficacy of naled against biting gnats, black flies, house flies, cattle lice, cattle grubs, horn flies, and stable flies. The articles were compiled using SciFinder Scholar.

The study author provided summaries of each of the appropriate citations, which included species, stage, age, sex, plot size, number trials, application technique/equipment, evaluation procedures, sampling technique and performance.

This information is deemed adequate to demonstrate naled's effectiveness in controlling the public health pests listed on Amvac's labels. Specifically:

- reference to public literature supports label claims for **reduction** in horn flies. See EPA Reg. No. 5481-479.
- reference to public literature supports label claims for control of house flies and stable flies. See EPA Reg. Numbers 5481- 482, 5481-480, 5481-479 and 5481-481.
- reference to public literature support label claims for **suppression** of black fly populations. See EPA Reg. No. 5481-480.
- reference to public literature supports space-spray applications. See EPA Reg. No. 5481-482.
- reference to public literature (on other biting flies) support label claims for **suppression** of deer flies. See EPA Reg. No. 5481-481.
- The referenced public literature citations (MRID 46111014) are deemed adequate to support continued registration of the AMVAC products registered for controlling mosquitoes and other small biting flies (*i.e.*, biting midges) control claims on the three Amvac labels using ground and aerial application methods.

## RECOMMENDATIONS:

The referenced public literature citations (MRID 46111014) are deemed adequate to support continued registration of the AMVAC products registered for the public health pests listed on the labels.

**Labeling:**

1. Revise the application rates to conform to the Naled IRED requirements for risk mitigation (specifically see pages 77, 81, 89 and 90 of the IRED).
2. Define WEST and EAST, *i.e.*, what is the geographical definition (EPA Reg. No. 5481-481).
3. Under directions for black fly control, specify “black fly suppression” (EPA Reg. No. 5481-480).
4. Delete reference to “resistant and non-resistant” houseflies (EPA Reg. No. 5481-482).